

*Via U.S. Mail*

January 8, 2007

Joseph LeMay, Remedial Project Manager  
US EPA – Region I  
1 Congress Street  
Suite 1100 (HBO)  
Boston, MA 02114-2023

Re: Operations & Maintenance Summary Monthly Report – December 2006  
UniFirst Corporation, Wells G&H Site, Woburn, MA

Dear Mr. LeMay:

On behalf of UniFirst Corporation, I am submitting the report "Source Area & Operable Unit 1, Operations & Maintenance Summary Monthly Report" for the period December 1 through December 31, 2006.

Should you have any questions, please call.

Sincerely,

Timothy M. Cosgrave  
Project Manager

TMC:hs  
enclosure

cc: Jennifer McWeeney, BWSC, DEP  
David Sullivan, TRC  
Stephen Aquilino, UniFirst  
Greg Bibler, Goodwin Procter LLP  
Peter Cox, RETEC  
Susan Brand, Cummings Properties  
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**Source Area & Operable Unit 1  
Operations & Maintenance  
Summary Monthly Report  
UniFirst Corporation**

**December 1 – December 31, 2006**

Wells G & H Site  
Woburn, Massachusetts

*Prepared for:*  
UniFirst Corporation  
68 Jonspin Road  
Wilmington, Massachusetts  
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*Prepared by:*  
  
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## 1 Introduction

Harvard Project Services (HPS), as Operation and Maintenance Contractor of the groundwater recovery and treatment system (System) at UniFirst Corporation, 15 Olympia Avenue, Woburn, Massachusetts, has prepared this report. The System, which started pumping on September 30, 1992, is part of the ongoing Remedial Action of the Wells G&H Superfund Site in Woburn, Massachusetts. This report describes the groundwater recovery and treatment activities for the period December 1 through December 31, 2006 and identifies future RD/RA activities at the site.

## 2 System Operation & Maintenance

### 2.1 Maintenance

Activities during the reporting period at the Treatment Plant are summarized in the Maintenance Summary Table.

**UniFirst Treatment Plant Maintenance Summary**

<b>Date</b>	<b>Activity</b>	<b>Company</b>
December 6	Routine Site Visit Monthly Sampling	HPS
December 12	Routine Site Visit Quarterly Sensor Inspection	HPS
December 20	Routine Site Visit	HPS
December 27	Routine Site Visit Backwash Carbon 4	HPS

### 2.2 Treatment System Process Flow & Pressures

The total monthly flow through the System for the reporting period was 1.39 million gallons. The average flow during this period was approximately 31.2 gallons per minute. The average hourly flow rate in gallons per minute is depicted in Figure 1.

The average hourly carbon pressure at the influent to the primary tank during the month was 13.3 psi. The trend of the carbon system pressure is illustrated in Figure 1. The process flow through the carbon vessels was Tank 2 to Tank 3a to Tank 4a.

### 2.3 Drawdown Elevation in UC22

During the reporting period, the average hourly pumping water level elevation in well UC22 was approximately 27.1 feet. The water level elevations for the month are shown on Figure 1.

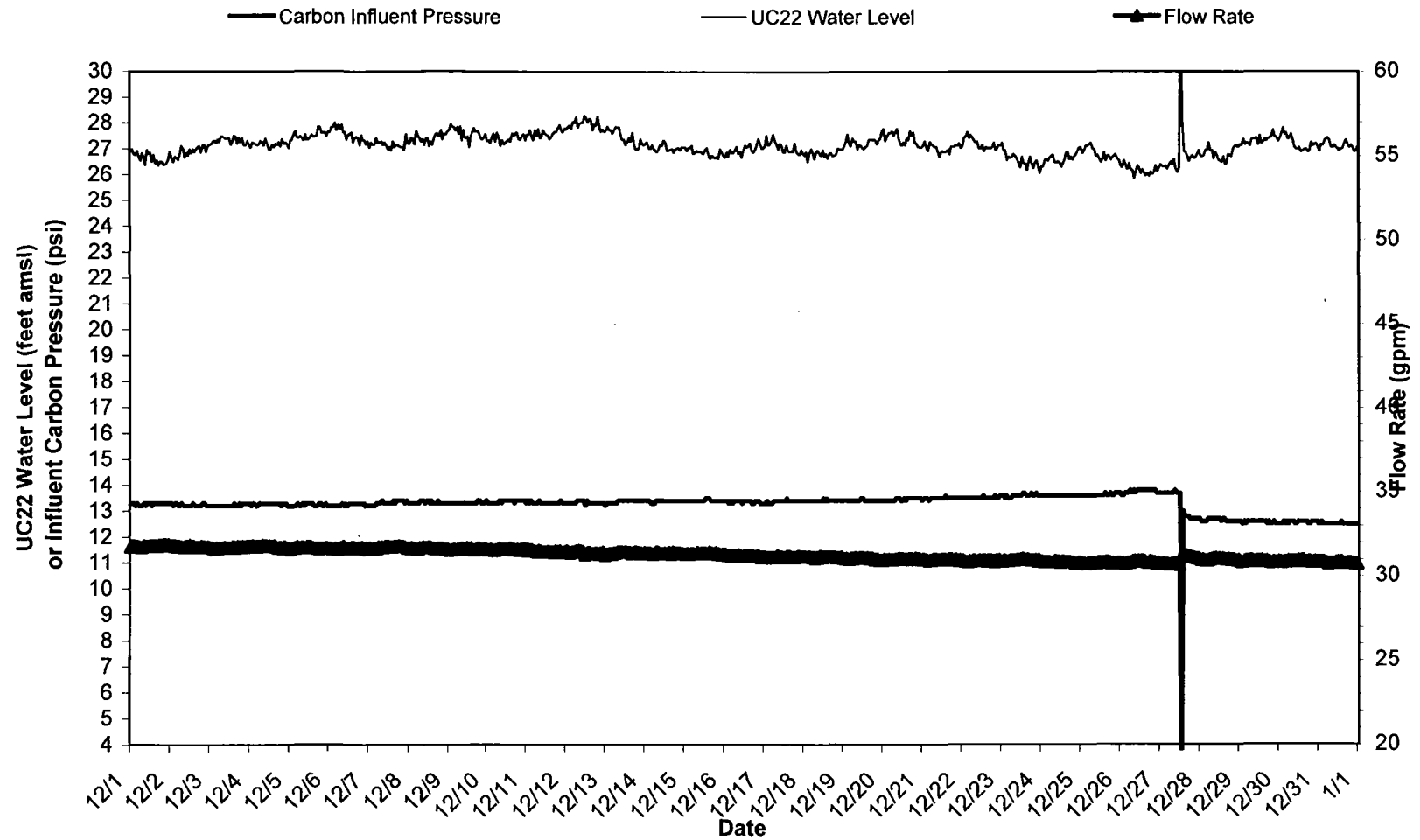
### **3 Treatment System Performance**

The effectiveness of the treatment system is monitored by monthly sampling and analysis. Analytical samples for routine monitoring were collected on December 6, 2006 from sample points S5C1, S5C2, S6 and S7 (duplicate of S6). Monthly analytical results are summarized in the attached table, "Water Quality Summary."

### **4 Future Activities**

Operation and monitoring of the groundwater extraction and treatment system will continue. Routine monthly samples will be collected on January 2 and February 6, 2007.

Figure 1: December 2006 Operations Data



## Water Quality Summary

Groundwater Treatment System  
UniFirst Corporation  
Wells G & H Site, Woburn, Massachusetts

Sample Date: 12/6/2006 Method: 8260  
Sample Location: **S5C1, 1<sup>st</sup> carbon effluent**

CAS No.	Compound	Result	Qualifier	Units	Detection Limit
56-23-5	Carbon Tetrachloride	<1.0		µg/L	1.0
75-34-4	1,1-Dichloroethene	<1.0		µg/L	1.0
127-18-4	Tetrachloroethene	26		µg/L	1.0
79-01-6	Trichloroethene	12		µg/L	1.0
0540-59-0	1,2-Dichloroethene (total)	2		µg/L	1.0
71-55-6	1,1,1-Trichloroethane	3		µg/L	1.0

Sample Date: 12/6/2006 Method: 8260  
Sample Location: **S5C2, 2<sup>nd</sup> carbon effluent**

CAS No.	Compound	Result	Qualifier	Units	Detection Limit
56-23-5	Carbon Tetrachloride	<1.0		µg/L	1.0
75-34-4	1,1-Dichloroethene	<1.0		µg/L	1.0
127-18-4	Tetrachloroethene	<1.0		µg/L	1.0
79-01-6	Trichloroethene	<1.0		µg/L	1.0
0540-59-0	1,2-Dichloroethene (total)	3		µg/L	1.0
71-55-6	1,1,1-Trichloroethane	3		µg/L	1.0

Sample Date: 12/6/2006 Method: 524.2  
Sample Location: **S6, final effluent**

CAS No.	Compound	Discharge Limit	Result	Qualifier	Units	Detection Limit
71-43-2	Benzene	5.0	<0.5		µg/L	0.5
56-23-5	Carbon Tetrachloride	5.0	<0.5		µg/L	0.5
75-34-4	1,1-Dichloroethene	7.0	<0.5		µg/L	0.5
127-18-4	Tetrachloroethene	5.0	<1.0		µg/L	0.5
79-01-6	Trichloroethene	5.0	<0.5		µg/L	0.5
0540-59-0	1,2-Dichloroethene (total)	70.0	<1.0		µg/L	1.0
71-55-6	1,1,1-Trichloroethane	Monitor Only	0.23 J		µg/L	0.5
7439-92-1	Lead, total (Method 200.7)	10.2	<3.3		µg/L	3.3

Sample Date: 12/6/2006 Method: 524.2  
Sample Location: **S7, duplicate of final effluent**

CAS No.	Compound	Discharge Limit	Result	Qualifier	Units	Detection Limit
71-43-2	Benzene	5.0	<0.5		µg/L	0.5
56-23-5	Carbon Tetrachloride	5.0	<0.5		µg/L	0.5
75-34-4	1,1-Dichloroethene	7.0	<0.5		µg/L	0.5
127-18-4	Tetrachloroethene	5.0	<1.0		µg/L	0.5
79-01-6	Trichloroethene	5.0	<0.5		µg/L	0.5
0540-59-0	1,2-Dichloroethene (total)	70.0	<1.0		µg/L	1.0
71-55-6	1,1,1-Trichloroethane	Monitor Only	0.21 J		µg/L	0.5